	Unit	No	Dimension			Quantity	Rate	Amount
			L	B	D		in Rs.	in Rs.
KSRRB M2100-10. Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with ...shed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. **(P.No-222,I No-27.18 pwd 2018-19)**								
Bhuvaneshwari Nagara								
For RCC Drain								
1st cross		1	292.00	1.10	0.15	48.18		
3rd cross		2	40.00	1.10	0.15	13.20		
4th cross		2	38.00	1.10	0.15	12.54		
5th cross		2	39.00	1.10	0.15	12.87		
6th cross		2	39.00	1.10	0.15	12.87		
Cross road from 1st cross								
cross road-1		2	26.00	1.10	0.15	8.58		
For CC Road								
1st cross		1	150.00	5.20	0.15	117.00		
Cross roads from 1st cross								
cross road-1		2	26.00	1.10	0.15	8.58		
cross road-2		2	32.00	1.20	0.15	11.52		
cross road-3		2	36.00	1.20	0.15	12.96		
	Cum					**258.30**	**5509.33**	**1423059.08**
Basic Rate	5115.00							
Deduct Cement cost as per SR -18-19 Page No.V Sl.No.123	-1079.39	Note:- (220*490.63/100)=1079.39						
Add Cement cost as per Issue rate	1161.86	Note:- (220*264.06/50)=1161.86						
Sub Total	**5197.48**							
Area Weightage 6%	311.85							
Grand Total	**5509.33**							
Providing and laying plain/reinforced cement concrete for side drains **using M20 nominal mix** concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specificationsdo- Wall & bottom thickness 15cm (I No-37.59.2,P No-271 PWD SR 2018-19)								
Bhuvaneshwari Nagara								
For RCC Drain								
Bottom raft								
1st cross		1	292.00	0.90	0.15	39.42		
3rd cross		2	40.00	0.90	0.15	10.80		
4th cross		2	38.00	0.90	0.15	10.26		
5th cross		2	39.00	0.90	0.15	10.53		
6th cross		2	39.00	0.90	0.15	10.53		
Cross road from 1st cross								
cross road-1		2	26.00	0.90	0.15	7.02		
For Wall								
1st cross		2	292.00	0.15	0.75	65.70		
3rd cross		4	40.00	0.15	0.75	18.00		
4th cross		4	38.00	0.15	0.75	17.10		
5th cross		4	39.00	0.15	0.75	17.55		
6th cross		4	39.00	0.15	0.75	17.55		
Cross road from 1st cross								
cross road-1		4	26.00	0.15	0.75	11.70		
	Cum					**236.16**	**7189.42**	**1697853.00**
Basic Rate	6670.00							

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	Unit	No	Dimension L	B	D	Quantity	Rate in Rs.	Amount in Rs.
Deduct Cement cost as per SR -18-19 Page No.V Sl.No.123	-1471.89	Note:- (300*490.63/100)=1471.89						
Add Cement cost as per Issue rate	1584.36	Note:- (300*264.06/50)=1584.36						
Sub Total	**6782.47**							
Area Weightage 6%	406.95							
Grand Total	**7189.42**							

KSRB 4.9.2 : **Providing T.M.T steel reinforcement** for R.C.C workincluding straightening, cutting, bending, hooking, placing in position,lapping and / or welding wherever required, tying with binding wire andanchoring to the adjoining members wherever necessary complete asper design (laps, hooks and wastage shall not be measured and paid)cost of materials, labour, HOM of machinery complete as perspecifications.Specification No. KBS 4.6.3 (I No-28.8.2,P No-229 PWD SR 2018-19)

Consider 65kg/Cum for RCC Drain		1	236.16	65.00		15350.40		
	Tonne					**15.35**	**72326.98**	**1110248.07**
Basic Rate	68233.00							
Area Weightage 6%	4093.98							
Grand Total	**72326.98**							

Providing and fixing Precast RCC cover slabs of 100 mm thick for drain in cement concrete 1:1.5:3 using graded granite jelly 20mm and down size with steel reinforcement and pointing for joints 1:3 cement mortor including form work, lift charges,curing and concrtee finished surface on both sides etc,and complete as per the directions of Enginner in charges.(Data Rate)

Bhuvaneshwari Nagara								
For RCC Drain								
	Providing New Slabs as per Item No.2					354.24		
	Sqm					**354.24**	**1615.00**	**572097.60**
Data Rate	**1615.00**							

KSRRB M200-24. Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials seperately complete as per specifications. MORTH Specification No. 202 **(Page No-140 Item no - 18.47 of KPWD SR 2018-19)**

For CC Road								
Bhuvaneshwari Nagara								
1st cross		1	150.00	5.20	0.15	117.00		
Cross roads from 1st cross								
cross road-1		2	26.00	1.10	0.15	8.58		
cross road-2		2	32.00	1.20	0.15	11.52		
cross road-3		2	36.00	1.20	0.15	12.96		
	Cum					**150.06**	**952.94**	**142998.18**
Basic Rate	899.00							
Area Weightage 6%	53.94							
Grand Total	**952.94**							

KSRRB 300-49. Scarifying bituminous course 50mm to 75mm thick along with premix carpet / surface dressing by manual means without disturbing the base and stacking of the debris materials including cost of all labour charges complete as per specifications. MORTH / Chapter 3 **(Page No. 146/ Item No.19.55/ PWD SR 2018-19)**

For Aphalt road								
1st cross		2	122.00	1.20		292.80		
2nd Cross		1	36.00	4.00		144.00		
3rd cross		2	40.00	1.10		88.00		
4th cross		1	38.00	3.80		144.40		
5th cross		1	39.00	3.80		148.20		
6th cross		1	39.00	4.00		156.00		
	Sqm					**973.40**	**95.40**	**92862.36**
Basic Rate	90.00							

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	Unit	No	Dimension			Quantity	Rate	Amount
			L	B	D		in Rs.	in Rs.
Area Weightage 6%	5.40							
Grand Total	**95.40**							
KSRRB 300-Compaction KSRRB 300-58. Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications. MORTH / Chapter 3 **(Page No-147 Item no - 19.64 of KPWD SR 2018-19)**								
Bhuvaneshwari Nagara								
For CC Road								
1st cross								
Cross roads from 1st cross		1	150.00	5.20		780.00		
cross road-1		2	26.00	1.10		57.20		
cross road-2		2	32.00	1.20		76.80		
cross road-3		2	36.00	1.20		86.40		
For Aphalt road								
1st cross		2	122.00	1.20		292.80		
2nd Cross		1	36.00	4.00		144.00		
3rd cross		2	40.00	1.10		88.00		
4th cross		1	38.00	3.80		144.40		
5th cross		1	39.00	3.80		148.20		
6th cross		1	39.00	4.00		156.00		
	Sqm					**1973.80**	**6.36**	**12553.37**
Basic Rate	6.00							
Area Weightage 6%	0.36							
Grand Total	**6.36**							
KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap I basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve thedesired density complete as per specifications. MORTH Specification No. 406 **(Page No-158 Item no - 20.18 of KPWD SR 2018-19).**								
Bhuvaneshwari Nagara								
For CC Road								
1st cross		1	150.00	5.20	0.10	78.00		
Cross roads from 1st cross								
cross road-1		2	26.00	1.10	0.10	5.72		
cross road-2		2	32.00	1.20	0.10	7.68		
cross road-3		2	36.00	1.20	0.10	8.64		
For Aphalt road								
1st cross		2	122.00	1.20	0.20	58.56		
2nd Cross		1	36.00	4.00	0.20	28.80		
3rd cross		2	40.00	1.10	0.20	17.60		
4th cross		1	38.00	3.80	0.20	28.88		
5th cross		1	39.00	3.80	0.20	29.64		
6th cross		1	39.00	4.00	0.20	31.20		
	Cum					**294.72**	**2001.28**	**589817.24**
Basic Rate	1888.00							
Area Weightage 6%	113.28							
Grand Total	**2001.28**							

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	Unit	No	Dimension L	B	D	Quantity	Rate in Rs.	Amount in Rs.
Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 design mix M20/M30 , with 25mm and down size graded granite metal coarse aggregates and fine aggregates , with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications. - M30 (at 360Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.46cum) **(Page No. 175.tem No.22.6.1,PW,P & IWTD SR 2018-19)**								
Bhuvaneshwari Nagara								
For CC Road								
1st cross		1	150.00	5.20	0.15	117.00		
Cross roads from 1st cross								
cross road-1		1	26.00	4.30	0.15	16.77		
cross road-2		1	32.00	5.40	0.15	25.92		
cross road-3		1	36.00	5.70	0.15	30.78		
	Cum							
Basic Rate	4916.00					**190.47**	**5354.02**	**1019780.54**
Deduct Cement cost as per SR -18-19 Page No.V Sl.No.123	-1766.27	Note:- (360*490.63/100)=1766.27						
Add Cement cost as per Issue rate	1901.23	Note:- (360*264.06/50)=1901.23						
Sub Total	5050.96							
Area Weightage 6%	303.06							
Grand Total	**5354.02**							
KSRRB M500-6. Providing and applying primer coat with bitumen emulsion on prepared surface of granular base including clearing of road surface and spraying primer at the rate of 0.60 kg I sqm using mechanical means complete as per specifications.MORTH Specification No. 502 **(Page No-161 Item no - 21.6 of KPWD SR 2018-19)**								
For Aphalt road								
1st cross		2	122.00	1.20		292.80		
2nd Cross		1	36.00	4.00		144.00		
3rd cross		2	40.00	1.10		88.00		
4th cross		1	38.00	3.80		144.40		
5th cross		1	39.00	3.80		148.20		
6th cross		1	39.00	4.00		156.00		
	Sqm					**973.40**	**26.50**	**25795.10**
As per Issue rate	25.00							
Area Weightage 6%	1.50							
Grand Total	**26.50**							
3 KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications.. MORTH Specification No. 507 - using 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen **(Page No-160 Item no - 21.17.6 of KPWD SR 2018-19)**								
For Aphalt road								
1st cross		1	122.00	2.90	0.05	17.69		
2nd Cross		1	36.00	4.00	0.05	7.20		
3rd cross		2	40.00	1.10	0.05	4.40		
4th cross		1	38.00	3.80	0.05	7.22		
5th cross		1	39.00	3.80	0.05	7.41		

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	Unit	No	Dimension			Quantity	Rate in Rs.	Amount in Rs.
			L	B	D			
6th cross		1	39.00	4.00	0.05	7.80		
	Cum					51.72	5727.18	296209.75
As per Issue rate	5403.00							
Area Weightage 6%	324.18							
Grand Total	**5727.18**							
KSRRB 500-2. Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH specification clause 501 **(Page No-158 Item no - 21.2 of KPWD SR 2018-19)**								
For Aphalt road								
1st cross		1	122.00	5.20		634.40		
2nd Cross		1	36.00	4.00		144.00		
3rd cross		1	40.00	4.80		192.00		
4th cross		1	38.00	3.80		144.40		
5th cross		1	39.00	3.80		148.20		
6th cross		1	39.00	4.00		156.00		
	Sqm					1419.00	5.30	7520.70
Basic Rate	5.00							
Area Weightage 6%	0.30							
Grand Total	**5.30**							
KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen(VGIO) on the prepared black topped surfaces at 2.5 kg per 10sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications.MORTH **(Page No-158 Item no - 21.7 of KPWD SR 2018-19)**								
For Aphalt road								
1st cross		1	122.00	5.20		634.40		
2nd Cross		1	36.00	4.00		144.00		
3rd cross		1	40.00	4.80		192.00		
4th cross		1	38.00	3.80		144.40		
5th cross		1	39.00	3.80		148.20		
6th cross		1	39.00	4.00		156.00		
	Sqm					1419.00	12.72	18049.68
As per Issue rate	12.00							
Area Weightage 6%	0.72							
Grand Total	**12.72**							
KSRRB M500-19. Providing and laying bituminous concrete 40 mm thick with hot mix plant, using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 500.9 complete in all respects complete as per specifications. Clause 507 of MORTH V Version as per IRC SP-53-2015,do-Using 40-60 TPH Capacity HMP With Mechanical Paver Grading II (30-45mm) with 5.4% of Modified bituminous binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics (Waste Plastic) **(P.No.171 & I.No.21.78.12, PWD 18-19)**								
For Aphalt road								
1st cross		1	122.00	5.20	0.04	25.38		
2nd Cross		1	36.00	4.00	0.04	5.76		
3rd cross		1	40.00	4.80	0.04	7.68		
4th cross		1	38.00	3.80	0.04	5.78		
5th cross		1	39.00	3.80	0.04	5.93		
6th cross		1	39.00	4.00	0.04	6.24		
	Cum					56.76	6761.74	383796.36
As per Issue rate	6379.00							
Area Weightage 6%	382.74							
Grand Total	**6761.74**							

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	Unit	No	Dimension L	B	D	Quantity	Rate in Rs.	Amount in Rs.
SSRRB M100-1 Loading and Unloading of Stone Boulder / Stone aggregates /Sand/ Kanker / Moorum. SRRB M100-1 : Placing tipper at loading point, loading with front end loader,dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications. MORTH -100/ Chapter 1 (P.No.136 & I.No.17.1 PWD 18-19)								
Table Item No.1 &7	Cum							
Basic Rate	57.00					1265.07		
						1265.07	57.00	72108.99
SSRRB M100-4.1. Cost of Haulage Excluding Loading and Unloading MORTH -100/ Chapter 1 Case-I : Surface Road (P.No.136 & I.No.17.4 PWD 18-19)								
Table Item No.16	t.km							
lead for earth 10 km(2*1.28*10=25.60)	25.60					1265.07		
						1265.07	25.60	32385.79
							Total Constrution cost	7691040.35
							GST Charges 12%	922924.84
							Tender Premium 5%	384552.02
							Sub Total	8998517.20
							Miscellaneous & Rounding Off	1482.80
							Grand Total	9000000.00

Rupees Ninety Lakh(s) Only

Notes:

Work Comes Within BBMP Limits.

fied that personaly Inspected the Work Spot.

fied that the Estimate is Prepared Based on CSR of PWD Bangalore Circle 2018-19 and Issue Rates from 20-05-20

ate is Prepared Making Use of essential itemof work as per site conditions in safest way of Execution in most

ical way

work is not include in any other program of work.

Assistant Engineer
Ward No.14

Assistant Executive Engineer
T. Dasarahalli Sub-Division

Executive Engineer
Dasarahalli Division

ADMINISTRATIVELY SANCTIONED FOR
(Rupees.....Ninty lakhs.....
.....
Under the Head of Account...P-3485.....
...Construction of...Kannada Kala...
...Bhavan.....
Registered as no EE(D.D.)/AS.110/2021 Subject
to conditions contained in Enclosed Memo
No.EE/DD/AS/110/20-21.....Dt:29/07/20
JE/AE. Exe. Engg (DASARAHALLI) BBMP

Technically Sanctioned For Rs:...90:00 Lakhs
Rs. In Words...Ninty Lakh Rupees only...
.....
Under...P-3485 Construction of kannada kala B
Job Code No.014-21-000004.....
Registered as SE No.....70...../20-21...subject
to conditions contained in Enclosed Memo
No.SE/D2/TS...170/2020-21 Dt.11/08/20.
AE / JE TA SE(D) 11/08

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